



When it comes to analyzing  
minerals in Mongolia.,

# **CENTRAL GEOLOGICAL LABORATORY OF MONGOLIA**

**NuTroNS-2: Joint EC-IAEA Nuclear Science Training  
Course with NUCLEONICA, Monaco, 14-16th Nov. 2011**

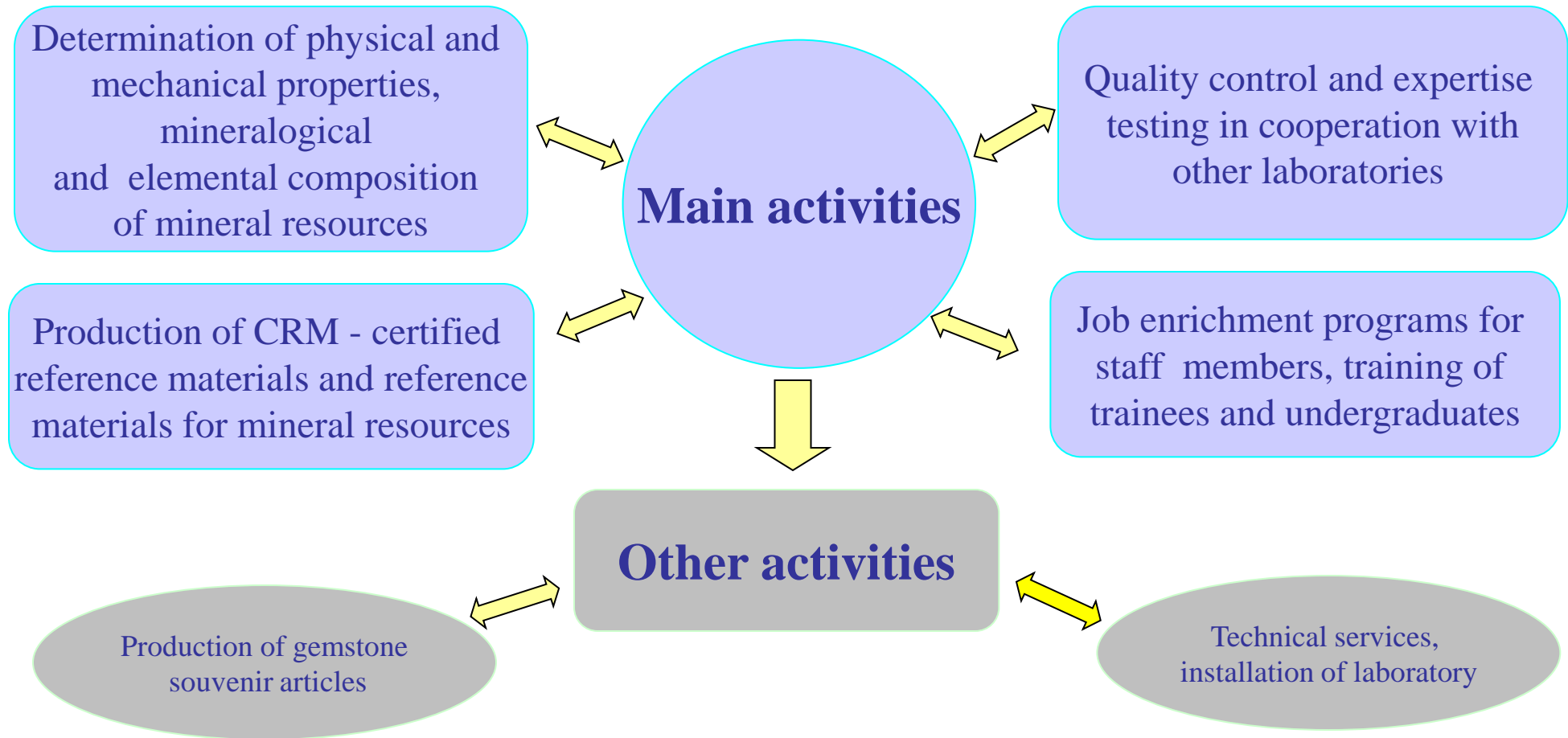
# ABOUT US

Central Geological Laboratory (CGL), founded in 1957, is the leading professional organization in Mongolia to offer a comprehensive range of mineral analysis techniques as well as environmental testing.

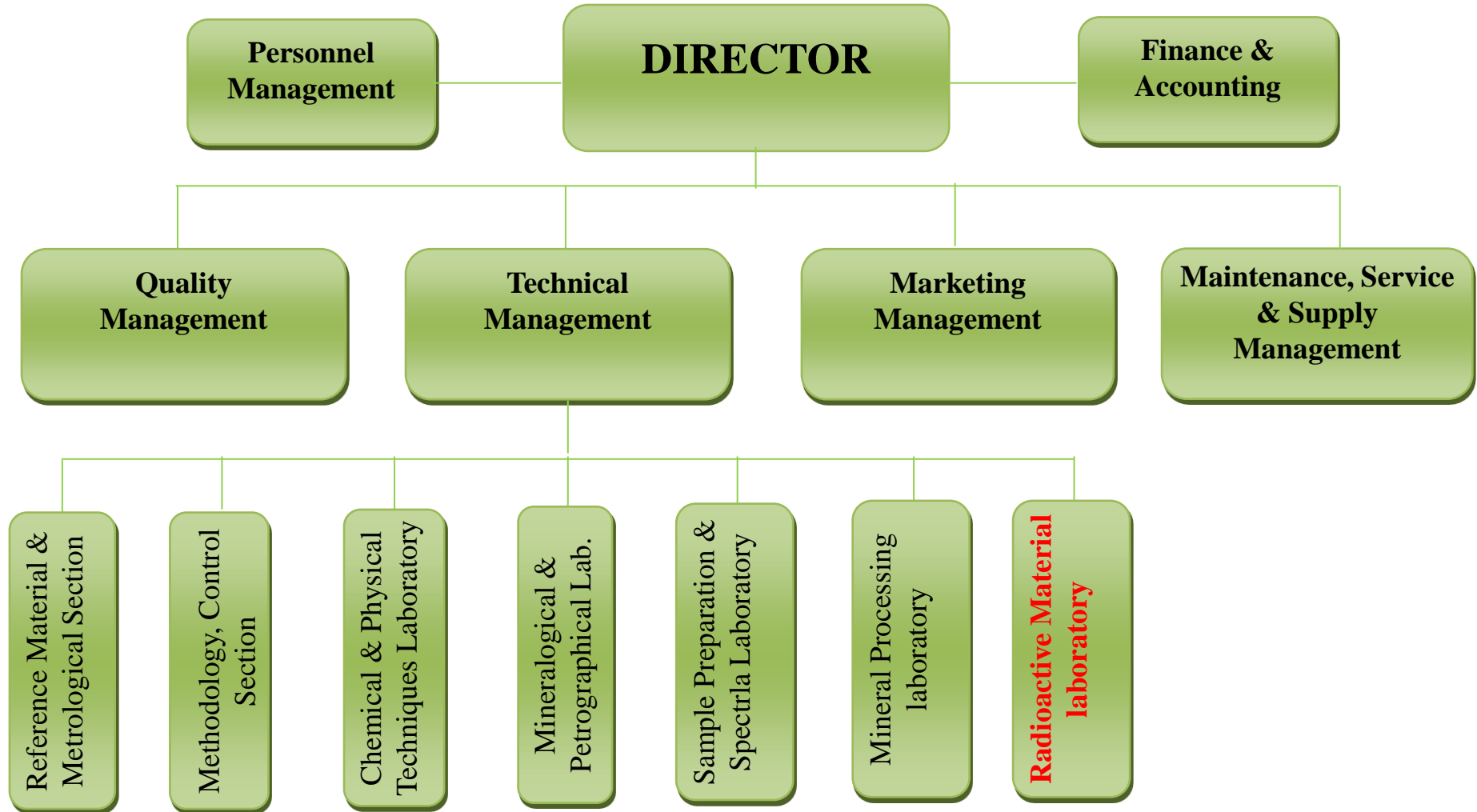


The CGL is a **state property** organization, and is ISO-accredited at national and international levels.

# ACTIVITIES



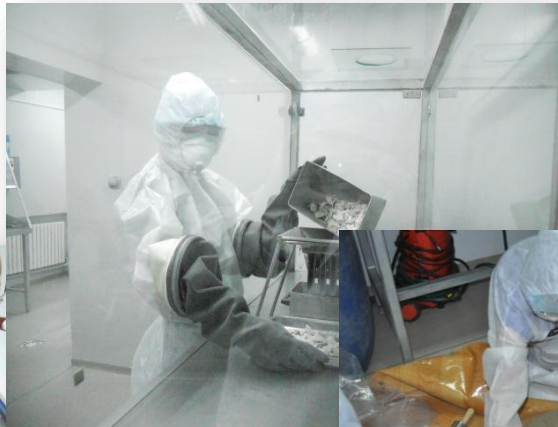
# ORGANIZATIONAL STRUCTURE



# Radioactive Material laboratory

## Main activities:

- Sample preparation of radioactive material
- Radioactive elemental analyses



# **Recent and ongoing uranium exploration and mine development activities in Mongolia**

- Due to certain economic and social conditions uranium exploration and related activities were sharply reduced from 1996 to 2005. Since 2005, increasing prices for uranium have triggered intensive uranium exploration in Mongolia, involving mostly western investors.
- At present, about 30 domestic and foreign invested companies hold official exploration licenses and are carrying out intensive exploration in the country.

# Radioactive Material laboratory

Radioactive  
sample  
preparation  
laboratory



Technological  
processing for  
uranium ore





# Radioactive Material laboratory

- ICP-OE spectrometer “iCAP 6300” and WDXRF spectrometer “AXIOS” for elemental analyses in various types of samples.



- Gamma spectrometer with high purity coaxial germanium detector for determination of radioactive isotopes





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**THANK YOU FOR YOUR  
ATTENTION.**

# IAEA – CGL COOPERATION



- **IAEA Technical cooperation projects' Objective:**

Improvement of productivity and accuracy of quantitative elemental analysis of mineral resources by enhancing the nuclear analytical techniques of CGL laboratories.

- Support of geological investigations focused on nuclear energy mineral resources Strengthen governmental control on exploitation of nuclear energy mineral resources.

